

CLAIMS

1. A motor driver comprising:

5 (a) an energizing unit for supplying a current to a driving coil of
a motor;

(b) an energizing signal generator for generating a normal
generating pattern which the energizing unit performs to the driving coil;

(c) a first energizing signal output unit in which a first
non-normal energizing pattern is stored;

10 (d) a second energizing signal output unit in which a second
non-normal energizing pattern different from the first pattern is stored;

(e) a rotary direction detector for detecting a rotary direction of
the motor;

(f) an over current detector for detecting a current of the motor;

15 (g) a first signal selector for selecting a signal to be supplied to
the energizing unit; and

(h) a second signal selector for selecting a signal to be supplied
to the first signal selector,

20 wherein the first signal selector receives a signal from the
energizing signal generator, a signal from the second signal selector, and a
signal from the over-current detector, then selects either one of the signal
from the energizing signal generator or the signal from the second signal
selector based on the signal from the over-current detector before outputting
the signal selected,

25 wherein the second signal selector receives a signal from the first
energizing signal output unit, a signal from the second energizing signal
output unit, and a signal from the rotary direction detector, then selects

either one of the signal from the first energizing signal output unit or the signal from the second energizing signal output unit based on the signal from the rotary direction detector before outputting the signal selected.

- 5 2. The motor driver of claim 1, wherein the first non-normal energizing pattern is used for controlling an energizing element in the energizing unit so that the driving coil can be opened, and the second non-normal energizing pattern is used for controlling the energizing element in the energizing unit so that the driving coil can be shorted with each other.
- 10 3. A motor driven by the motor driver as defined in claim 1.
4. A motor driven by the motor driver as defined in claim 2.
- 15 5. An apparatus including a driven part which is driven by the motor as defined in claim 3.
6. An apparatus including a driven part which is driven by the motor as defined in claim 4.
- 20 7. The apparatus as defined in claim 5, wherein the driven part is a fan.
8. The apparatus as defined in claim 6, wherein the driven part is a
- 25 fan.